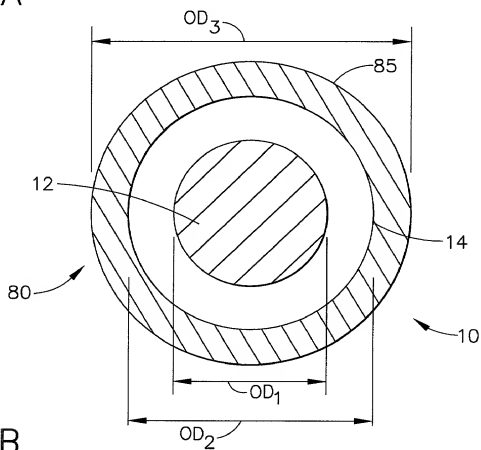
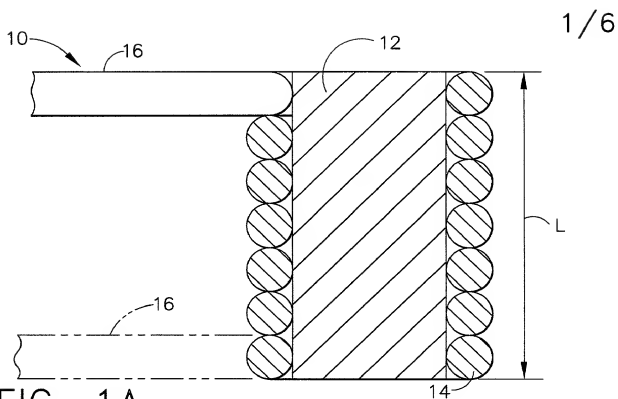


APPENDIX

TABLE I

REGRESSING HEAT EXPERIMENT

| | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | | | | | | | | | | | | | | | | |
|-------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|---------|------|---------|-------|---------|------|-------|-------|---------|------|--------|-------|---------|------|---------|-------|
| | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | sensitivity | resistance | | | | | | | | | | | | | | | | |
| 30 | 2.0590 | 1.39 | 170.30 | 12.59 | 2.3052 | 1.30 | 165.20 | 12.48 | 2.4537 | 1.31 | 171.60 | 13.17 | 2.8664 | 1.26 | 165.60 | 13.25 | 3.3480 | 1.00 | 235.7 | 12.19 | 2.4057 | 1.25 | 197.4 | 13.02 | 2.4590 | 1.32 | 160.90 | 20.27 | 2.5002 | 1.11 | 175.40 | 11.74 |
| 35 | 2.0527 | 1.25 | 170.80 | 10.99 | 2.3598 | 1.16 | 168.00 | 11.01 | 2.4607 | 1.18 | 174.30 | 11.42 | 2.8695 | 1.14 | 168.90 | 11.28 | 3.3504 | 0.92 | 239.3 | 10.49 | 2.4081 | 1.05 | 169.6 | 11.56 | 2.4318 | 1.20 | 161.70 | 19.23 | 2.5069 | 1.00 | 177.40 | 10.48 |
| 40 | 2.0505 | 1.13 | 181.80 | 9.19 | 2.3990 | 1.03 | 171.00 | 9.08 | 2.4598 | 1.06 | 177.20 | 9.59 | 2.8728 | 1.03 | 165.10 | 9.42 | 3.3533 | 0.84 | 242.8 | 8.60 | 2.4188 | 1.04 | 171.9 | 10.06 | 2.4360 | 1.05 | 169.30 | 15.94 | 2.5053 | 0.91 | 179.20 | 9.38 |
| 45 | 2.0500 | 1.00 | 184.40 | 7.65 | 2.4020 | 0.88 | 173.90 | 7.25 | 2.4632 | 0.92 | 179.90 | 7.95 | 2.8765 | 0.90 | 164.90 | 7.85 | 3.3568 | 0.74 | 248.7 | 7.17 | 2.4141 | 0.90 | 174.7 | 8.30 | 2.4387 | 0.92 | 171.00 | 12.75 | 2.5070 | 0.84 | 180.60 | 8.53 |
| 50 | 2.0419 | 0.88 | 187.40 | 5.92 | 2.4057 | 0.74 | 176.40 | 5.73 | 2.4670 | 0.78 | 182.60 | 6.35 | 2.8801 | 0.71 | 167.60 | 6.27 | 3.3605 | 0.62 | 250.9 | 5.36 | 2.4197 | 0.79 | 177.3 | 6.71 | 2.4428 | 0.75 | 174.10 | 19.74 | 2.5093 | 0.75 | 183.90 | 6.81 |
| 55 | 2.0457 | 0.75 | 189.40 | 4.25 | 2.4087 | 0.62 | 179.90 | 4.25 | 2.4705 | 0.62 | 185.30 | 4.40 | 2.8828 | 0.64 | 200.80 | 4.68 | 3.3642 | 0.51 | 264.4 | 3.93 | 2.4198 | 0.66 | 179.6 | 5.35 | 2.4462 | 0.61 | 172.80 | 11.51 | 2.5134 | 0.60 | 185.10 | 5.89 |
| 60 | 2.0489 | 0.63 | 192.80 | 2.98 | 2.4116 | 0.50 | 181.80 | 2.59 | 2.4744 | 0.48 | 188.20 | 3.19 | 2.8875 | 0.52 | 203.80 | 3.14 | 3.3674 | 0.42 | 268.7 | 2.20 | 2.4232 | 0.52 | 182.2 | 3.84 | 2.4494 | 0.48 | 183.90 | 4.84 | 2.5157 | 0.49 | 181.40 | 2.40 |
| 65 | 2.0519 | 0.51 | 195.80 | 1.38 | 2.4148 | 0.36 | 184.30 | 1.19 | 2.4774 | 0.34 | 191.90 | 1.25 | 2.8913 | 0.38 | 207.30 | 1.40 | 3.3708 | 0.32 | 281.7 | 1.03 | 2.4295 | 0.38 | 184.6 | 2.49 | 2.4516 | 0.36 | 189.20 | 1.37 | 2.5168 | 0.45 | 194.10 | 0.98 |
| 70 | 2.0537 | 0.37 | 198.50 | 0.00 | 2.4176 | 0.25 | 186.50 | 0.00 | 2.4769 | 0.24 | 194.20 | 0.00 | 2.8952 | 0.25 | 210.20 | 0.00 | 3.3749 | 0.20 | 284.4 | 0.00 | 2.4303 | 0.27 | 189.6 | 1.23 | 2.4548 | 0.20 | 192.80 | 0.00 | 2.5215 | 0.20 | 198.00 | 0.00 |
| 75 | 2.0599 | 0.21 | | | 2.4207 | 0.12 | | | 2.4833 | 0.10 | 196.40 | | 2.8988 | 0.13 | 212.20 | | 3.3760 | 0.10 | 287.9 | | 2.4326 | 0.13 | 188.2 | 0.00 | 2.4580 | 0.13 | | | 2.5247 | 0.13 | | |
| 80 | 2.0685 | 0.00 | | | 2.4268 | 0.00 | | | 2.4868 | 0.00 | | | 2.9024 | 0.00 | | | 3.3816 | 0.00 | | | 2.4388 | 0.00 | | | 2.4511 | 0.00 | | | 2.5280 | 0.00 | | |
| slope | -0.0286 | -3.3165 | | -0.0289 | -3.3233 | | -0.0289 | -3.3305 | -0.0294 | -3.3378 | | -0.0295 | -3.3374 | | -0.0293 | | -0.0284 | | -0.0294 | | -0.0284 | | | | -0.0271 | | | | -0.0219 | | -0.3969 | |



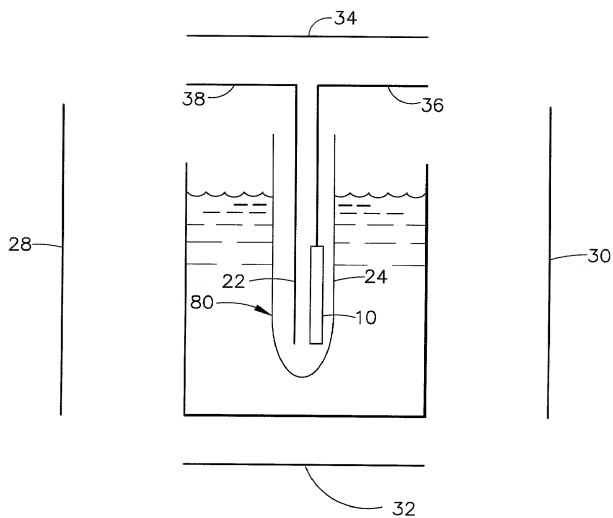


FIG. 2

TEST 90 * SEP 2000

REGRESSING HEAT EXPERIMENT SENSOR 2

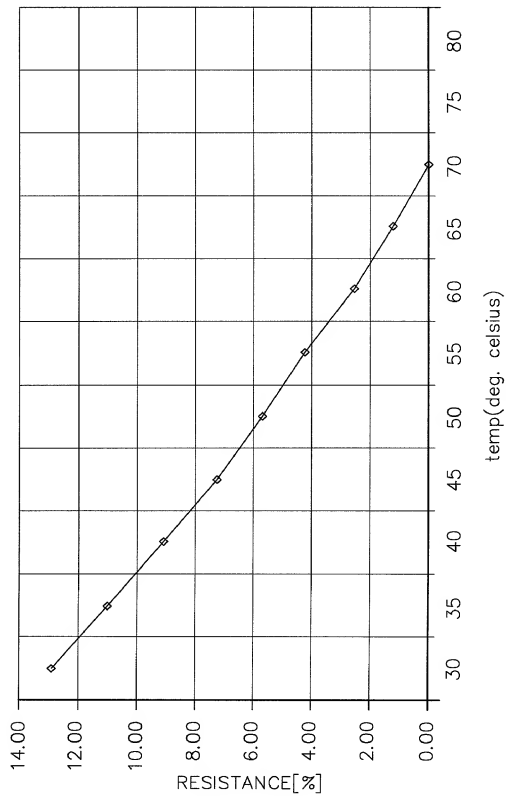


FIG. 3A

REGRESSING HEAT EXPERIMENT SENSOR 2

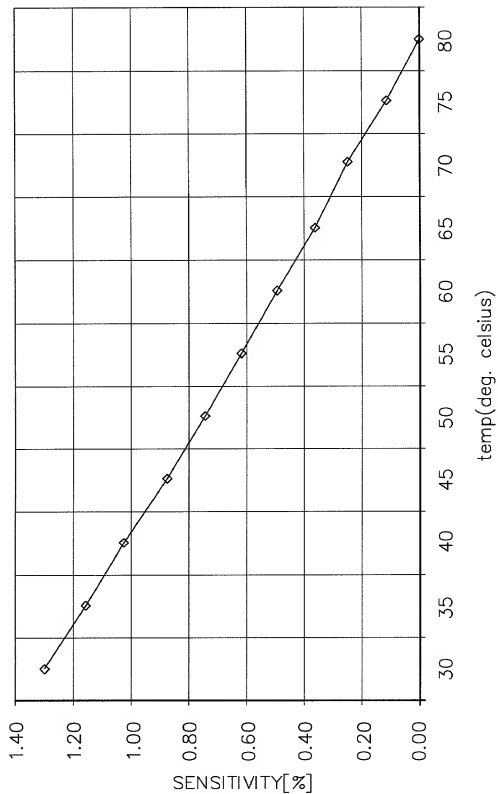


FIG. 3B

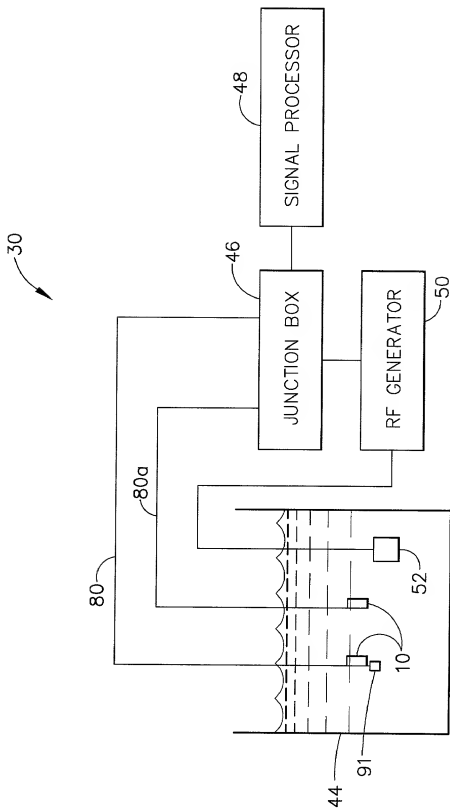


FIG. 4

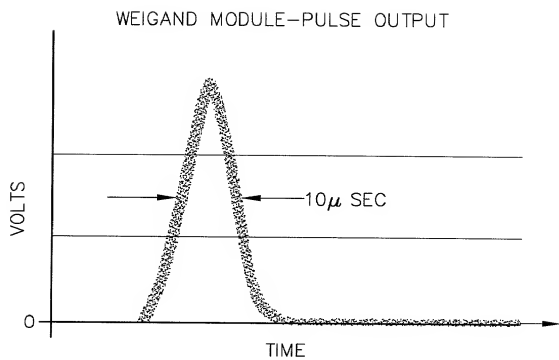


FIG. 5